3662

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Application Number	09/932,010
Conf. No.	4166
Filing Date	08/17/01
First Named Inventor	Rabinowitz
Group Art Unit	3662
Examiner Name	Phan, Dao Linda
Total Number of Pages in This Submission: 5	Attorney Docket Number: RSM003001

ENCLOSURES ***(check all that apply)***

- [ ] Fee Transmittal Form
  - [ ] Fee Attached
- [x] Amendment / Reply
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  - [ ] Affidavits/declaration(s)
- [ ] Extension of Time Request
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- [ ] Information Disclosure Statement
- [ ] Certified Copy of Priority Document(s)
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- [ ] Petition
- [ ] Petition to Convert to a Provisional Application
- [ ] Power of Attorney, Revocation Change of Correspondence Address
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- [ ] After Allowance Communication to Group
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Firm or Individual name	Richard A. Dunning, Jr.
Signature	
Date	10/28/02

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Rabinowitz et.al.
Serial No. : 09/932,010
Filed : 8/17/2001
Title : Position Location using Terrestrial Digital Video Broadcast Television Signals

Art Unit : 3662
Examiner : Phan, Dao Linda

Commissioner for Patents
Washington, D.C. 20231

PRELIMINARY AMENDMENT UNDER 37 CFR 1.115

Prior to examination, please amend this application as follows:

In the Specification:

Please replace paragraph 0099 with the following paragraph:

[0099] Now the processing of the DTV channel signal by DSP 1714 is described for a coherent software receiver. A nominal offset frequency for the downconverted sampled signal is assumed. If this signal is downconverted to baseband, the nominal offset is 0Hz. The process generates the complete autocorrelation function based on samples of a signal $s(t)$. The process may be implemented far more efficiently for a low duty factor reference signal. Let T_i be the period of data sampled, ω_{in} be the nominal offset of the sampled incident signal, and let ω_{offset} be the largest possible offset frequency, due to Doppler shift and oscillator frequency drift. The process implements the pseudocode listed below.

- $R_{max} = 0$
- Create a complex code signal

$s_{code}(t) = C_i(t) + jC_q(t)$

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